DT03 Rec'd PCT/PT0 4 4 JAN 2005

PTO-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
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| TRANSMITTAL LETTER TO THE UNITED STATES | 531-017.007 | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| DESIGNATED/ELECTED OFFICE (DO/EO/US) | U.S. APPLICATION NO. (If known; sep 37 CFR 1.5) | | | | | | | |
| CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | 1 10/521395 | | | | | | | |
| INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE 16 July 2003 | PRIORITY DATE CLAIMED 16 July 2002 | | | | | | | |
| TITLE OF INVENTION A Process and an Apparatus for Producing Calcium | m Carbonata wie en Engumetic Deb | | | | | | | |
| APPLICANT(S) FOR DO/EO/US | m carbonate via an Enzymatic Pathway | | | | | | | |
| Frederick ANCTIL, Roger GAUDREAULT | • | | | | | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/E | O/US) the following items and other information: | | | | | | | |
| 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 37 | 1. | | | | | | | |
| 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission | on under 35 U.S.C. 371. | | | | | | | |
| 3. This is an express request to begin national examination procedures (35 U.S.C. 3' (5), (6), (9) and (21) indicated below. | 71(f)). The submission must include items | | | | | | | |
| 4. The US has been elected (Article 31). | | | | | | | | |
| 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) | | | | | | | | |
| a. is attached hereto (required only if not communicated by the Internatio | a. is attached hereto (required only if not communicated by the International Bureau). | | | | | | | |
| b. KX has been communicated by the International Bureau. | | | | | | | | |
| c. is not required, as the application was filed in the United States Receiv | c. is not required, as the application was filed in the United States Receiving Office (RO/US). | | | | | | | |
| 6. An English language translation of the International Application as filed (35 U.S. | C. 371(c)(2)). | | | | | | | |
| a. is attached hereto. | | | | | | | | |
| b. has been previously submitted under 35 U.S.C. 154(d)(4). | | | | | | | | |
| 7. Amendments to the claims of the International Application under PCT Article 19 | (35 U.S.C. 371(c)(3)) | | | | | | | |
| a. are attached hereto (required only if not communicated by the Interna | a. are attached hereto (required only if not communicated by the International Bureau). | | | | | | | |
| b. have been communicated by the International Bureau. | | | | | | | | |
| c. have not been made; however, the time limit for making such amendr | ments has NOT expired. | | | | | | | |
| d. have not been made and will not be made. | | | | | | | | |
| 8. An English language translation of the amendments to the claims under PCT Ar | rticle 19 (35 U.S.C. 371(c)(3)). | | | | | | | |
| 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | | | | | | | |
| 10. An English language translation of the annexes of the International Preliminary E Article 36 (35 U.S.C. 371(c)(5)). | Examination Report under PCT | | | | | | | |
| Items 11 to 20 below concern document(s) or information included: | 1 | | | | | | | |
| 11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | | | | | | | |
| 12. An assignment document for recording. A separate cover sheet in compliance w | rith 37 CFR 3.28 and 3.31 is included. | | | | | | | |
| 13. X A preliminary amendment. | | | | | | | | |
| 14. An Application Data Sheet under 37 CFR 1.76. | | | | | | | | |
| 15. A substitute specification. | | | | | | | | |
| 16. A power of attorney and/or change of address letter. | | | | | | | | |
| 17. A computer-readable form of the sequence listing in accordance with PCT Rule | 13ter.2 and 37 CFR 1.821- 1.825. | | | | | | | |
| 18. X A second copy of the published International Application under 35 U.S.C. 154(d) | (4). | | | | | | | |
| | A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | | | | | | |
| PCT/1B/308 | n, Response to Written Opinion | | | | | | | |
| his collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to | obtain or retain a benefit by the public, which is to file (and by the | | | | | | | |

USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. | | | ATION NO. | ATTORNEY'S DOCKET NUMBER | | | | | |
|---|---|---------------------------|---|--------------------------|-------------------------------|----------------------------|-------------|-------------|--|
| 10/521395 PCT/CA2003/001070 | | | 0 | 531-017.00 | 7 | | | | |
| 21. The following fees are submitted: | | | | | \$ 300.00 | - | | | |
| x a) Basic national fee \$300.00 x b) Examination fee \$200.00 | | | \$ 200.00 | | | | | | |
| | | | | | | \$ 500.00 | | | |
| c) Search fee\$500.00 | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = \$1000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each | | | 1,000.00 | 1,000.00 | | | | | |
| listing or co additional 5 | mputer program listing file 0 sheets of paper or fract | ed in an el ion thereo | ectronic medium). The fee is f. | \$2501 | or each | | DEPOSIT | ACCUSATION. | |
| Total Sheets | Total Sheets Extra sheets Number of each additional 50 or fraction thereof (round up to a whole number) | | RATE | | 33 | 0447 | | | |
| - 100 = | /50 = | | | | × \$250.00 | \$. | 0005 | F-2000 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | | e earliest | \$ | 366 | 180 | |
| CLAIMS | NUMBER FIL | .ED | NUMBER EXTRA | | RATE | \$ | 1 | | |
| Total daims | 11_ | - 20 = | 0 | , | \$50.00 | \$ 0 | ļ | | |
| Independent da | ims 1 | - 3 = | 0 | , | \$200.00 | \$ 0 | | | |
| MULTIPLE DEP | ENDENT CLAIM(S) (if ap | plicable) | | | \$360.00 | \$ | | | |
| | | | TOTAL OF ABOV | | | \$1,000.00 | | | |
| Applicant of by 1/2. | daims small entity status. | See 37 C | FR 1.27. The fees indicated a | ibove a | re reduced | \$ | i and | | |
| | • | | | | SUBTOTAL = | \$1,000.00 | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | | | | | | |
| TOTAL NATIONAL FEE = | | | \$ 1,000.00 | | | | | | |
| | g the enclosed assignment te cover sheet (37 CFR 3. | | 1.21(h)). The assignment m \$40.00 per property | ust be | accompanied + | \$ | | | |
| TOTAL FEES ENCLOSED = | | | | \$ 1,000.00 | | | | | |
| | | | | Amount to be refunded: | | 7 | | | |
| | | Amount to be charged: | \$ | | | | | | |
| a. A check in the amount of \$ 1,000,00 to cover the above fees is enclosed. | | | | | | | | | |
| b. Please charge my Deposit Account No. 23-0442 in the amount of \$ any deficient field bove fees. A duplicate copy of this sheet is enclosed. | | | | | | | | | |
| c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit t Account No. 23–0442. A duplicate copy of this sheet is enclosed. | | | | | | | | | |
| d. Fees a | are to be charged to a cre- luded on this form. Prov | dit card. W | ARNING: Information on this card information and authoriz | form r | nay become put n PTO-2038. | olic. Credit card informat | tion should | Inot | |
| NOTE: Where a and granted to | an appropriate time limit restore the international | under 37 | CFR 1.495 has not been m | et, a p | etition to revive | e (37 CFR 1.137(a) or (b) |) must be f | iled | |
| | RRESPONDENCE TO: | | (| / 9 | | 100 | | - | |
| Francis I Magnire | | | | | | | | | |
| Customer No.: 004955 Francis J. Maguire Francis J. Maguire | | | | | | | | | |
| NAME | | | | | | | | | |
| | | | | _ | 31,391 | | | | |
| REGISTRATION NUMBER | | | | | | | | | |

FORM PTO-1390 (REV. 12-2004)

Page 2 of 2



IN THE UNITED S'EXTES DESIGNATED/ELECTED OFFICE (DO/EO/US)

REGARDING THE INTERNATIONAL

DOCKET OR REFERENCE NUMBER:

APPLICATION OF:

PCT/CA2003/001070

531-017.007

ENTITLED:

A PROCESS AND AN APPARATUS FOR PRODUCING CALCIUM CARBONATE VIA AN ENZYMATIC PATHWAY

Mail Stop PCT
To The United States Designated/Elected Office (DO/EO/US)
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<u>NATIONAL STAGE EXPRESS MAIL CERTIFICATE</u>

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Date of Deposit:

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Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US)
Copy of PCT Request
Preliminary Amendment
WO Publication No. WO 2004/007737 A2 (entire document)
Information Disclosure Statement, PTO/SB/08A and references
PCT/Request
Written Opinion and Response to Written Opinion
PCT/IB/308
Check for \$ 1,000.00 for payment of fees
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Are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Each paper letter or communication relating to an international application during the international stage for which a date of filing is to be obtained as of the date of mailing must have its own certificate and the "Express Mail" label number as a part thereof or attached thereto. When, as here, the certification is presented on a separate sheet, that sheet must (1) be signed and (2) fully identify and be securely attached to the paper or fee it accompanies. Identification should include the serial number and filing date of the application as well as the type of paper being filed, e.g. complete application, specification and drawings, responses to rejection or refusal, notice of appeal, etc. If the serial number of the application is not known, the identification should include at least the name of the inventors (s) and the title of the invention.

The label number need not be placed on each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter or a fee, along with the certificate of mailing by "Express Mail". Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label number is place.

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